What is an ROV?

ROV stands for Remotely Operated Vehicle

**HOW DEEP?**
ROVs can be designed for any ocean depth, reaching 11,000 m!

**LIGHTS**
ROVs carry many bright lights so cameras can record glimpses of the dark depths.

**CAMERAS**
ROVs have many cameras to capture new ocean discoveries and to operate smoothly.

**MANIPULATORY ARM**
Multi-joint arms with interchangeable claws are used to collect samples.

**WHO DIVES?**
No person goes underwater, that’s the magic of remote operations! Pilots on the ship control the ROV.

**TETHER**
A long fiber-optic cable linking ROVs to the host ship is used to transmit data and provide power to the vehicles.

**SAMPLE BOXES**
Containers of different shapes and sizes store the newly collected specimens until the ROV returns to the surface.

**HOW BIG?**
Small as a book or big as a tractor! ROVs range in size to match the needs of a project.

**HOW LONG?**
ROVS can stay underwater a long time - many days without coming up! Often the limit is how full sample boxes are.

Illustration by Karen Romano Young